

Release notes for ENDF/B Development n-058\_Ce\_142  
evaluation

**ENDF**  
**B-VII**.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section  
*MAT=5843, MF= 1, MT=451 (1): Parsing stopped*

```
ERROR(S) FOUND IN MAT=5843, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 277 TO 327
```

- checkr Errors:

1. A variable is outside the allowed ENDF range  
*MAT=5843, MF= 1, MT=451 (0): Variable range*

```
ERROR(S) FOUND IN MAT=5843, MF= 1, MT=451
MOD = 1 OUT OF RANGE 0 - 0 RECORD NUMBER 277
```

2. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 2, MT=151 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5843, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY RECORD NUMBER 329
```

3. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 3, MT= 1 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5843, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY RECORD NUMBER 447
```

4. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 3, MT= 2 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5843, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY RECORD NUMBER 519
```

5. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 3, MT= 4 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5843, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY RECORD NUMBER 591
```

6. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 3, MT= 16 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5843, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY RECORD NUMBER 606
```

7. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 3, MT= 17 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5843, MF= 3, MT= 17  
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 617

8. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 3, MT= 22 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5843, MF= 3, MT= 22  
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 625

9. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 3, MT= 28 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5843, MF= 3, MT= 28  
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 641

10. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 3, MT= 32 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5843, MF= 3, MT= 32  
SECTION 3/ 32 NOT IN DIRECTORY RECORD NUMBER 651

11. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 3, MT= 33 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5843, MF= 3, MT= 33  
SECTION 3/ 33 NOT IN DIRECTORY RECORD NUMBER 658

12. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 3, MT= 51 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5843, MF= 3, MT= 51  
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 666

13. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 3, MT= 52 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5843, MF= 3, MT= 52  
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 681

14. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 3, MT= 53 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5843, MF= 3, MT= 53  
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 694

15. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 3, MT= 54 (0): Directory (b)*

- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5843, MF= 3, MT= 54 | RECORD NUMBER | 706 |
| SECTION 3/ 54 NOT IN DIRECTORY            |               |     |
16. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 3, MT= 55 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5843, MF= 3, MT= 55 | RECORD NUMBER | 718 |
| SECTION 3/ 55 NOT IN DIRECTORY            |               |     |
17. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 3, MT= 56 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5843, MF= 3, MT= 56 | RECORD NUMBER | 729 |
| SECTION 3/ 56 NOT IN DIRECTORY            |               |     |
18. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 3, MT= 57 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5843, MF= 3, MT= 57 | RECORD NUMBER | 740 |
| SECTION 3/ 57 NOT IN DIRECTORY            |               |     |
19. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 3, MT= 58 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5843, MF= 3, MT= 58 | RECORD NUMBER | 750 |
| SECTION 3/ 58 NOT IN DIRECTORY            |               |     |
20. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 3, MT= 59 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5843, MF= 3, MT= 59 | RECORD NUMBER | 760 |
| SECTION 3/ 59 NOT IN DIRECTORY            |               |     |
21. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 3, MT= 91 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5843, MF= 3, MT= 91 | RECORD NUMBER | 770 |
| SECTION 3/ 91 NOT IN DIRECTORY            |               |     |
22. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 3, MT=102 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5843, MF= 3, MT=102 | RECORD NUMBER | 779 |
| SECTION 3/102 NOT IN DIRECTORY            |               |     |
23. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 3, MT=103 (0): Directory (b)*

- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=5843, MF= 3, MT=103 |               |     |
|  | SECTION 3/103 NOT IN DIRECTORY            | RECORD NUMBER | 800 |
24. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 3, MT=104 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=5843, MF= 3, MT=104 |               |     |
|  | SECTION 3/104 NOT IN DIRECTORY            | RECORD NUMBER | 814 |
25. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 3, MT=105 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=5843, MF= 3, MT=105 |               |     |
|  | SECTION 3/105 NOT IN DIRECTORY            | RECORD NUMBER | 826 |
26. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 3, MT=107 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=5843, MF= 3, MT=107 |               |     |
|  | SECTION 3/107 NOT IN DIRECTORY            | RECORD NUMBER | 838 |
27. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 4, MT= 2 (0): Directory (b)*
- |  |  |               |     |
|--|--|---------------|-----|
|  | ERROR(S) FOUND IN MAT=5843, MF= 4, MT= 2 |               |     |
|  | SECTION 4/ 2 NOT IN DIRECTORY            | RECORD NUMBER | 855 |
28. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 4, MT= 16 (0): Directory (b)*
- |  |   |               |      |
|--|---|---------------|------|
|  | ERROR(S) FOUND IN MAT=5843, MF= 4, MT= 16 |               |      |
|  | SECTION 4/ 16 NOT IN DIRECTORY            | RECORD NUMBER | 1027 |
29. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 4, MT= 17 (0): Directory (b)*
- |  |   |               |      |
|--|---|---------------|------|
|  | ERROR(S) FOUND IN MAT=5843, MF= 4, MT= 17 |               |      |
|  | SECTION 4/ 17 NOT IN DIRECTORY            | RECORD NUMBER | 1038 |
30. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 4, MT= 22 (0): Directory (b)*
- |  |   |               |      |
|--|---|---------------|------|
|  | ERROR(S) FOUND IN MAT=5843, MF= 4, MT= 22 |               |      |
|  | SECTION 4/ 22 NOT IN DIRECTORY            | RECORD NUMBER | 1049 |
31. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 4, MT= 28 (0): Directory (b)*

- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5843, MF= 4, MT= 28 | RECORD NUMBER | 1060 |
| SECTION 4/ 28 NOT IN DIRECTORY            |               |      |
32. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 4, MT= 32 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5843, MF= 4, MT= 32 | RECORD NUMBER | 1071 |
| SECTION 4/ 32 NOT IN DIRECTORY            |               |      |
33. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 4, MT= 33 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5843, MF= 4, MT= 33 | RECORD NUMBER | 1082 |
| SECTION 4/ 33 NOT IN DIRECTORY            |               |      |
34. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 4, MT= 51 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5843, MF= 4, MT= 51 | RECORD NUMBER | 1093 |
| SECTION 4/ 51 NOT IN DIRECTORY            |               |      |
35. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 4, MT= 52 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5843, MF= 4, MT= 52 | RECORD NUMBER | 1210 |
| SECTION 4/ 52 NOT IN DIRECTORY            |               |      |
36. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 4, MT= 53 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5843, MF= 4, MT= 53 | RECORD NUMBER | 1237 |
| SECTION 4/ 53 NOT IN DIRECTORY            |               |      |
37. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 4, MT= 54 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5843, MF= 4, MT= 54 | RECORD NUMBER | 1264 |
| SECTION 4/ 54 NOT IN DIRECTORY            |               |      |
38. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 4, MT= 55 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5843, MF= 4, MT= 55 | RECORD NUMBER | 1351 |
| SECTION 4/ 55 NOT IN DIRECTORY            |               |      |
39. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 4, MT= 56 (0): Directory (b)*

- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5843, MF= 4, MT= 56 | RECORD NUMBER | 1377 |
| SECTION 4/ 56 NOT IN DIRECTORY            |               |      |
40. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 4, MT= 57 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5843, MF= 4, MT= 57 | RECORD NUMBER | 1403 |
| SECTION 4/ 57 NOT IN DIRECTORY            |               |      |
41. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 4, MT= 58 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5843, MF= 4, MT= 58 | RECORD NUMBER | 1429 |
| SECTION 4/ 58 NOT IN DIRECTORY            |               |      |
42. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 4, MT= 59 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5843, MF= 4, MT= 59 | RECORD NUMBER | 1455 |
| SECTION 4/ 59 NOT IN DIRECTORY            |               |      |
43. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 4, MT= 91 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5843, MF= 4, MT= 91 | RECORD NUMBER | 1481 |
| SECTION 4/ 91 NOT IN DIRECTORY            |               |      |
44. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 5, MT= 16 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5843, MF= 5, MT= 16 | RECORD NUMBER | 1509 |
| SECTION 5/ 16 NOT IN DIRECTORY            |               |      |
45. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 5, MT= 17 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5843, MF= 5, MT= 17 | RECORD NUMBER | 1589 |
| SECTION 5/ 17 NOT IN DIRECTORY            |               |      |
46. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 5, MT= 22 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5843, MF= 5, MT= 22 | RECORD NUMBER | 1633 |
| SECTION 5/ 22 NOT IN DIRECTORY            |               |      |
47. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 5, MT= 28 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5843, MF= 5, MT= 28  
SECTION 5/ 28 NOT IN DIRECTORY RECORD NUMBER 1869

48. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 5, MT= 32 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5843, MF= 5, MT= 32  
SECTION 5/ 32 NOT IN DIRECTORY RECORD NUMBER 1971

49. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 5, MT= 33 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5843, MF= 5, MT= 33  
SECTION 5/ 33 NOT IN DIRECTORY RECORD NUMBER 2012

50. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5843, MF= 5, MT= 91 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5843, MF= 5, MT= 91  
SECTION 5/ 91 NOT IN DIRECTORY RECORD NUMBER 2064

• **psyche** Warnings:

1. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ISOTOPE MASS = 142. L = 0 / STRENGTH FUNCTION IS 4.14898E-04 / AVERAGE GAMMA WIDTH 3.00000E-02 / LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV. (0): URR str. ftn.*

FILE 2  
SECTION 151  
ISOTOPE MASS = 142. L = 0  
STRENGTH FUNCTION IS 4.14898E-04  
AVERAGE GAMMA WIDTH 3.00000E-02  
... [1 more lines]

2. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ISOTOPE MASS = 142. L = 1 / STRENGTH FUNCTION IS 6.30421E-05 / AVERAGE GAMMA WIDTH 3.00000E-02 / LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV. (0): URR str. ftn.*

FILE 2  
SECTION 151  
ISOTOPE MASS = 142. L = 1  
STRENGTH FUNCTION IS 6.30421E-05  
AVERAGE GAMMA WIDTH 3.00000E-02  
... [1 more lines]

3. Non-threshold reaction with Q value differing from PSYCHE's expectations  
*FILE 3 / SECTION 22 / THE CALCULATED Q 9.83873E+05 DISSAGREES WITH THE GIVEN Q 1.31609E+06 (0): Iffy Q*

FILE 3  
SECTION 22  
THE CALCULATED Q 9.83873E+05 DISSAGREES WITH THE GIVEN Q 1.31609E+06



4. Non-threshold reaction with Q value differing from PSYCHE's expectations  
*FILE 3 / SECTION 102 / THE CALCULATED Q 4.80612E+06 DISSAGREES WITH THE GIVEN Q 5.14443E+06 (0): Iffy Q*

```
FILE 3
SECTION 102
      THE CALCULATED Q  4.80612E+06 DISSAGREES WITH THE GIVEN Q  5.14443E+06
```

5. Non-threshold reaction with Q value differing from PSYCHE's expectations  
*FILE 3 / SECTION 107 / THE CALCULATED Q 5.62406E+06 DISSAGREES WITH THE GIVEN Q 6.04420E+06 (0): Iffy Q*

```
FILE 3
SECTION 107
      THE CALCULATED Q  5.62406E+06 DISSAGREES WITH THE GIVEN Q  6.04420E+06
```

- fudge-4.0 Warnings:

1. Missing a channel with a particular angular momenta combination  
*resonances / resolved / MultiLevel BreitWigner (Error # 0): missingResonanceChannel*

```
WARNING: Missing a channel with angular momenta combination L = 0, J = 1.5 and S = 1.5 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 0.5 and S = 1.5 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 1.5 and S = 1.5 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 2.5 and S = 1.5 for "capture"
```

- fudge-4.0 Errors:

1. Calculated and tabulated Q values disagree.  
*reaction label 11: n[multiplicity:'2'] + Ce141 (Error # 0): Q mismatch*

```
WARNING: Calculated and tabulated Q-values disagree: -7334761.37008667 eV vs -7.1731e6 eV!
```

2. Calculated and tabulated Q values disagree.  
*reaction label 12: n[multiplicity:'3'] + Ce140 (Error # 0): Q mismatch*

```
WARNING: Calculated and tabulated Q-values disagree: -12762904.82563782 eV vs -1.26062e7 eV!
```

3. Calculated and tabulated Q values disagree.  
*reaction label 13: n + H1 + La141 (Error # 0): Q mismatch*

```
WARNING: Calculated and tabulated Q-values disagree: -9054297.825241089 eV vs -8820630. eV!
```

4. Calculated and tabulated Q values disagree.  
*reaction label 14: n + H2 + La140 (Error # 0): Q mismatch*

```
WARNING: Calculated and tabulated Q-values disagree: -13518239.7205658 eV vs -1.32746e7 eV!
```

5. Calculated and tabulated Q values disagree.  
*reaction label 15: n + H3 + La139 (Error # 0): Q mismatch*

```
WARNING: Calculated and tabulated Q-values disagree: -12421984.70184326 eV vs -1.22546e7 eV!
```

6. Calculated and tabulated Q values disagree.  
*reaction label 16: Ce143 + gamma (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 4979768.293548584 eV vs 5144430. eV!

7. Calculated and tabulated Q values disagree.  
*reaction label 17:  $n + \text{He4} + \text{Ba138}$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 1133166.523468018 eV vs 1316090. eV!

8. Calculated and tabulated Q values disagree.  
*reaction label 18:  $\text{H1} + \text{La142-s}$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -3886426.847381592 eV vs -3734520. eV!

9. Calculated and tabulated Q values disagree.  
*reaction label 19:  $\text{H2} + \text{La141-s}$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -6829731.724304199 eV vs -6510510. eV!

10. Calculated and tabulated Q values disagree.  
*reaction label 20:  $\text{H3} + \text{La140-s}$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -7261006.779953003 eV vs -7089460. eV!

11. Calculated and tabulated Q values disagree.  
*reaction label 21:  $\text{He4} + \text{Ba139-s}$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 5856597.472671509 eV vs 6.0442e6 eV!

• njoy2012 Warnings:

1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 16  
only mf4/mf5 provided

2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 17  
only mf4/mf5 provided

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 22  
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 28  
only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 32  
only mf4/mf5 provided

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (5): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 33  
only mf4/mf5 provided

7. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (6): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 91  
only mf4/mf5 provided